

Day 1 – Hackathon Progress Update

◆ Problem Understanding

- Reviewed and finalized the problem statement.
- Explored datasets and mapped key interconnections.
- Selected **events.csv** as the starting point for analysis.

◆ Work Completed

Data Preprocessing

- Missing values cleaned.
- Applied keyword matching for relevant insights.
- Normalized text/numerical data.
- Regex-based pattern matching implemented.
- Date formats parsed and standardized.
- Deduplication performed to improve data quality.

Architecture & Planning

- High-level system architecture drafted.
- SDLC methodology adopted for project structuring.
- Technology Readiness Level (TRL) assessed.

UI

- Initial thoughts on a simple, interactive UI noted.

◆ **Achieved Levels**

- **SDLC Level:** Reached **Design Phase** (Requirement Analysis + Architecture Planning completed).
- **TRL Level:** Achieved **TRL 3 – Proof of Concept** (dataset preprocessing & validation).